

## A NEW SPECIES OF DRABA (CRUCIFERAE) FROM WYOMING AND UTAH

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In 1953 Rollins described *Draba pectinipila* with the type from Clay Butte, Park County, Wyoming, at an elevation of 3050 meters. Two other specimens from Daggett County, Utah, were cited. Rollins noted that these plants are similar to *Draba oligosperma* but the petals are white instead of yellow, the fruits are more elongate and bear doubly pectinate hairs rather than simple hairs, and the pedicels and scapes are pubescent instead of glabrous and are longer. He further noted that the Utah specimens are very similar to the type material but differed in having a slightly coarser pubescence and siliques that are tapered both above and below rather than just below. He commented that the northeastern Utah-northwestern Wyoming disjunct distribution may seem unusual but cites the parallel distributions of *Draba apiculata* and *Parrya nudicaulis*.

Two points were apparently overlooked by Rollins (1953). First, the type of *Draba pectinipila* is from an alpine habitat while the Utah specimens are from the juniper-pinyon zone. Populations of *Parrya nudicaulis* and *Draba apiculata* are from alpine or subalpine habitats in both localities. Second, one of the Utah collections, *Williams 476*, is labeled "Fls. yellow." I have since confirmed the yellow petal color in populations in Sweetwater County, Wyoming, near the Utah border.

The Utah and southern Wyoming populations grow among *Pinus edulis* Engelm. and *Juniperus osteosperma* (Torrey) Little or just with the juniper when the pine drops out to the north. Some plants occur in sagebrush (*Artemisia* spp.) which is adjacent to or among the juniper. In contrast, *Draba oligosperma* grows on exposed rocky slopes and ridges.

The juniper-pinyon populations are sufficiently different from the alpine population and from *Draba oligosperma* to warrant specific status. Differences between the taxa are summarized in Table 1.

***Draba juniperina*** Dorn, sp. nov. Herba perennis caespitosa. caulibus erectis pubescentibus 3–15 cm longis; foliis linearibus vel lineari-oblancoelatis dense pubescentibus 2–14 mm longis, 0.5–1.5(2) mm latis; pedicellis tenuibus divaricatis pubescentibus 3–10 mm longis; petalis luteis spatulatis 4–5 mm longis; siliquis ovatis vel ellipticis pubescentibus 4–7 mm longis, 2–3 mm latis; stylis 0.7–1.5 mm longis.

Caespitose, perennial herb; caudex much branched; leaves all near base, linear to linear-oblancoelate, 2–14 mm long, 0.5–1.5(2) mm wide, pubescent with appressed doubly pectinate hairs, opposite pairs of leaves connate to form a sheath; scapes erect, 3–15 cm long, pubescent with doubly pectinate hairs; pedicels divaricately ascending, straight to slight-

Table 1. DIFFERENCES BETWEEN THREE SPECIES OF *Draba*.

Character	<i>D. oligosperma</i>	<i>D. pectinipila</i>	<i>D. juniperina</i>
Habitat	Exposed rocky slopes and ridges	Alpine slopes	Juniper-pinyon and sagebrush
Habit	Compactly caespitose	Loosely caespitose	Compactly caespitose
Scape	Glabrous	Pubescent	Pubescent
Petal length	3-5 mm	Mostly 3-4 mm	Mostly 4-5 mm
Petal color	Yellow	White	Yellow
Silique tip	Tapered or rounded	Rounded	
Valve surface	With simple, rarely forked hairs	With doubly pectinate hairs	With doubly pectinate hairs
Style length	0.1-1 mm	0.3-0.7 mm	0.7-1.5 mm

ly curved upward, usually pubescent, 3-10 mm long; sepals broadly oblong to elliptic, hyaline-margined, 2-3.5 mm long, pubescent; petals yellow, spatulate, mostly 4-5 mm long; siliques elliptic to ovate, tapered to tip, 4-7 mm long, 2-3 mm wide, flattened parallel to replum, pubescent on valve surfaces with appressed doubly pectinate hairs; styles 0.7-1.5 mm long; stigma slightly greater in diameter than style; seeds 2-5 in each locule, wingless, ca. 1.5 mm long,  $\frac{1}{2}$  to  $\frac{2}{3}$  as wide.

Type: Wyoming, Sweetwater Co., T12N R107W Sec 4, ca. 2135 meters, juniper forest, June 18, 1973, *Dorn 1837* (holotype RM, isotype UTC).

Additional Collections: UTAH: Daggett Co.: vicinity of Flaming Gorge ca. 1675 meters, dry hillsides, June 1, 1932, *Williams 476* (GH, RM); same location, 24 km SE of Manila, June 3, 1938, *Rollins 2275* (GH). WYOMING: Sweetwater Co.: T12N R107W Sec 9, ca. 2135 meters, juniper-pinyon forest, May 29, 1977, *Dorn 2895* (RM); T12N R106W SE $\frac{1}{4}$  Sec 12, ca. 2350 meters, sagebrush, May 29, 1977, *Dorn 2898* (RM); Richards Gap, ca. 1950 meters, sagebrush at edge of juniper forest, May 29, 1977, *Dorn 2902* (RM); T15N R102W Sec 18, ca. 2135 meters, juniper forest, May 29, 1977, *Dorn 2903* (RM).

Specimens will be distributed to additional herbaria.

## LITERATURE CITED

ROLLINS, R. C. 1953. *Draba* on Clay Butte, Wyoming. *Rhodora* 55: 229-235.

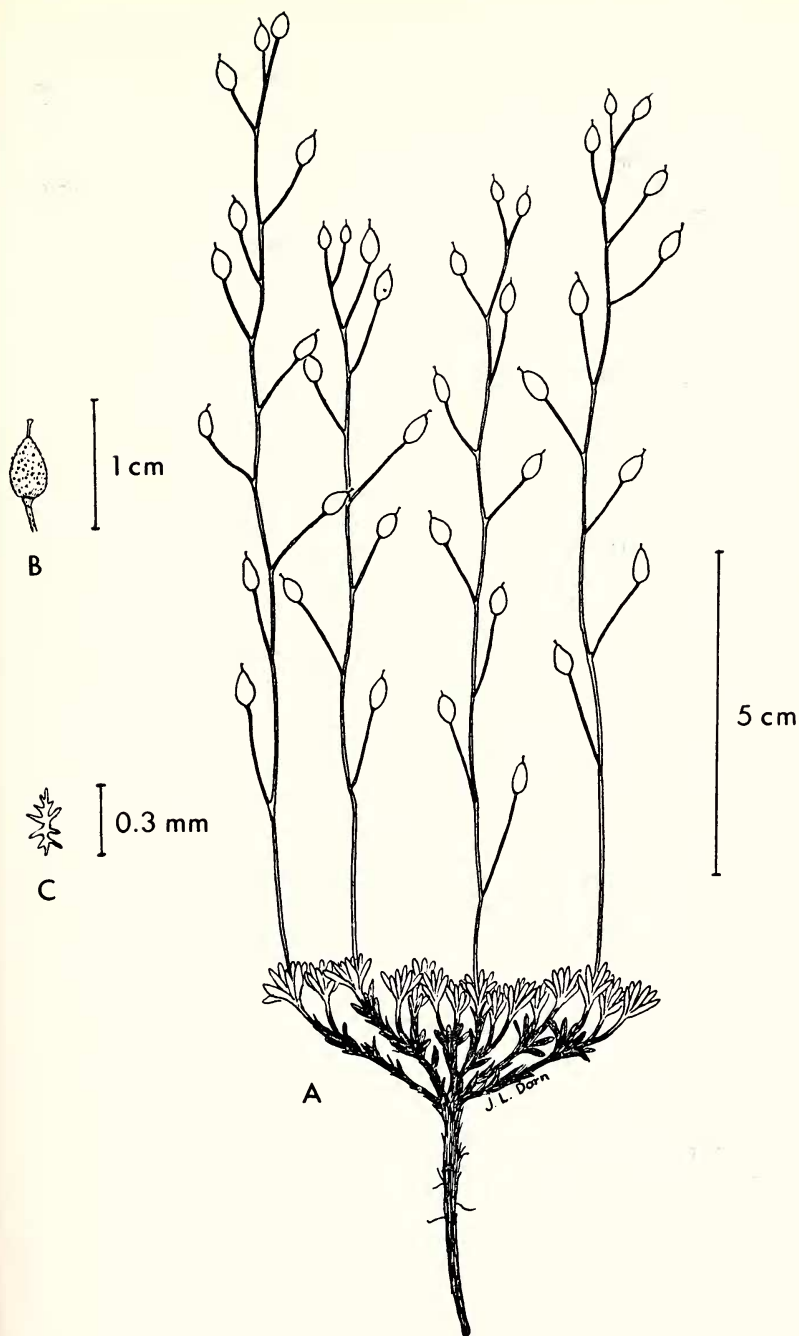


Fig. 1. *Draba juniperina*. A, habit. B, silique. C, doubly pectinate hair. From Dorn 1837.